

IN THE CLAIMS

1. (Currently Amended) A method comprising:

identifying data for transmission;

determining a number of time-slots available for the transmission; ~~and~~

identifying ~~a data packet from~~ a plurality of data packets that fit into the available time-slots; and

selecting, from the plurality of data packet, a data packet to transmit a portion of the data in accordance with characteristics of the transmission.

2. (Currently Amended) The method of claim 1, wherein ~~the identifying the data packet includes~~ selecting, from the plurality of data packets, a data packet to transmit a portion of the data comprises identifying a data packet from the plurality of data packets which can be used to transmit a largest portion of the data within the time-slots available.

3. (Original) The method of claim 1, wherein the data includes at least a minimum amount of data required by the data packet.

4. (Currently Amended) The method of claim 1, further comprising identifying a data packet from ~~[[a]]~~ the plurality of data packets to transmit all the data.

5. (Currently Amended) ~~[[The]]~~ A method ~~of claim 1, wherein the identifying the data packet includes~~ comprising:

identifying data for transmission;

determining a number of time-slots available for the transmission; and

identifying a data packet from ~~[[the]]~~ a plurality of data packets which is least prone to a transmission error.

6. (Currently Amended) ~~[[The]]~~ A method of claim 1, ~~wherein the identifying the data packet includes~~ comprising:

identifying data for transmission;

determining a number of time-slots available for the transmission; and

identifying a data packet which can be transmitted in a transmitter logic low power mode.

7. (Currently Amended) A computer-readable medium having stored thereon a set of instructions ~~to translate instructions, the set of instructions,~~ which when executed by a processor, cause the processor to perform a method comprising:

identifying data for transmission;

determining a number of time-slots available for the transmission; ~~and~~

identifying ~~a data packet from~~ a plurality of data packets that fit into the available time-slots; and

selecting, from the plurality of data packets, a data packet to transmit a portion of the data in accordance with characteristics of the transmission.

8. (Currently Amended) The medium of claim 7, ~~wherein the identifying the data packet includes~~ selecting, from the plurality of data packets, a data packet to transmit a portion of the data comprises identifying a data packet from the plurality of data packets which can be used to transmit a largest portion of the data within the time-slots available.

9. (Original) The medium of claim 7, wherein the data includes at least a minimum

amount of data required by the data packet.

10. (Currently Amended) The medium of claim 7, further comprising identifying a data packet from [[a]] the plurality of data packets to transmit all the data.

11. (Currently Amended) [[The]] A computer-readable medium of claim 7, wherein the identifying the data packet includes having stored thereon a set of instructions, which when executed by a processor, cause the processor to perform a method comprising:

identifying data for transmission;

determining a number of time-slots available for the transmission; and

identifying a data packet from the plurality of data packets which is least prone to a transmission error.

12. (Currently Amended) [[The]] A computer-readable medium of claim 7, wherein the identifying the data packet includes having stored thereon a set of instructions, which when executed by a processor, cause the processor to perform a method comprising:

identifying data for transmission;

determining a number of time-slots available for the transmission; and

identifying a data packet which can be transmitted in a transmitter logic low power mode.

13. (Currently Amended) A computing system comprising:

a first programmable module to identify data for transmission;

a second programmable module to determine a number of time-slots available for the transmission; and

a third programmable module to identify ~~a data packet from~~ a plurality of data packets that fit into the available time-slots, and to select, from the plurality of data packets, a data packet to transmit a portion of the data in accordance with characteristics of the transmission.

14. (Original) The computing system of claim 13, wherein the computing system includes a computer network router.

15. (Currently Amended) ~~[[The]]~~ A computing system ~~of claim 13, wherein the~~ comprising:

a first programmable module to identify data for transmission;

a second programmable module to determine a number of time-slots available for the transmission; and

a third programmable module ~~identifies to identify~~ a data packet least prone to a transmission error.

16. (Currently Amended) ~~[[The]]~~ A computing system ~~of claim 13, wherein the~~ comprising:

a first programmable module to identify data for transmission;

a second programmable module to determine a number of time-slots available for the transmission; and

a third programmable module ~~identifies to identify~~ a data packet which can be transmitted in a transmitter logic low power mode.